



**CONTINUING ELIGIBILITY INSPECTION (CEI) REPORT FOR
FLOOD CONTROL WORKS (NON-FEDERAL)**
Honolulu Engineer District
CEPOH-EC-T

Moanalua03PostStormrpt-fcw.doc

1. Project Name: **Moanalua Stream Flood Control Project**
2. Date of Inspection: December 10, 2003 (Wednesday)
2a. Date of Storm: December 7, 2003 (Sunday Night)
2b. Mapunapuna Photos: December 8, 2003 (Monday Morning)

3. Inspection Personnel:

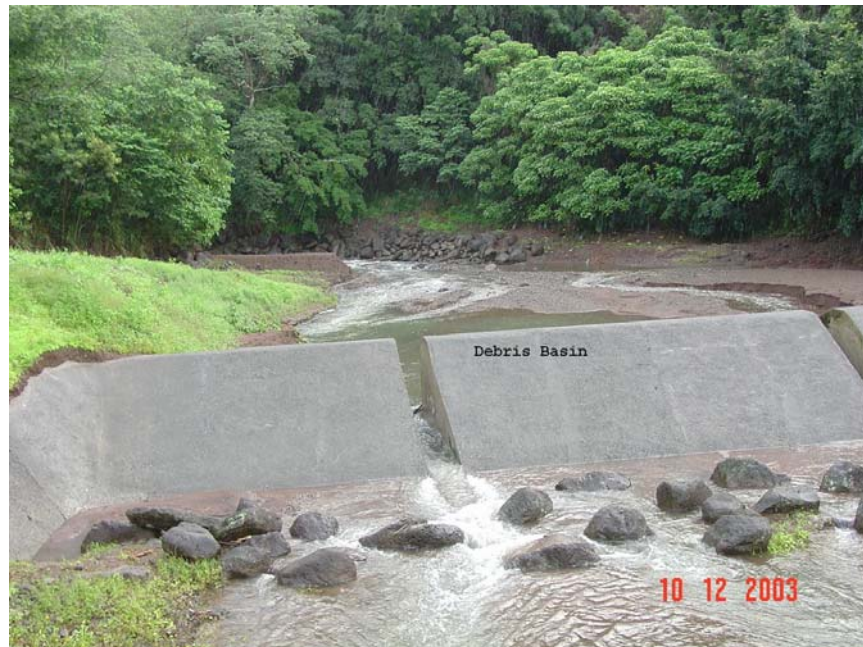
<u>Name</u>	<u>Agency/Office</u>	<u>Telephone</u>
a. Dan Meyers	COE	438-8875
b. Rick Oleniacz	COE	438-1981

4. Discussion:

This post storm inspection was conducted on the non-Federal Moanalua Stream Flood Control Project. Mr. Hugh Liu was contacted prior to the inspection, however was unable to participate. This project is approximately 1.6 miles in length with trapezoidal concrete-lined sections. The project begins at the debris basin at the back of Moanalua Valley and ends at the pedestrian bridge in the Moanalua Golf Course. This inspection started at the debris basin and ended at the Moanalua Golf Course, however additional photographs were taken below the project to the identify existing conditions in the Mapunapuna Area.

The September 2003 inspection revealed the following: "The channel invert has numerous holes. Trees have damaged the structure side slopes, with cracking and uplifting resulting. Side slopes near several drop structures have settled and cracked. Therefore, vegetation control is important along the tops of channel walls. **The project is rated UNSATISFACTORY, The Project Condition Code is UNACCEPTABLE and the project is considered INACTIVE in the Rehabilitation and Inspection Program.**"

There has been little additional damage as a direct result of this storm event. High-water marks indicated the water was less than 2 feet in the channel invert for the lined portion of the stream.



a. Debris Basin during inspection.



b. Sta. 69+00, RB, repair concrete sideslope.



c. Sta. 55+00, No Change.



d. Sta. 39+00, Additional damage.



e. Sta. 34+00, LB, High-water mark approx. 2 feet during event.



f. Sta. 15+00, LB replace concrete sideslope.



g. Sta. 11+00, RB, additional damage to concrete sideslope.



h. Sta. 5+00, RB, additional damage (separation) concrete sideslope.



i. Sta. 0+00, Lower limit of Project.



j. Debris Line approx. 100' downstream of project, RB.



k. High Water Marks on fence at entrance to Moanalua Garden.



l. Overview of Moanalua Garden , Note Mud line.



m. Overview of Moanalua Stream above Kikowaena St. Bridge.

MAPUNAPUNA - PHOTOGRAPHS FROM DECEMBER 8TH 2003 (0800 HRS)









Moanalua Stream, Right Bank, 100' above Kikowaena St. Bridge



5. Findings/Conclusions:

The overall condition of the channel is **POOR**. Worsening of existing conditions on the project occurred only at a few locations. Flooding at the Moanalua Gardens was likely caused by existing stream invert size and flooding at the Mapunapuna Industrial Area was likely caused by debris and vegetation being stuck at the Kikowaena St. Bridge.

Signed: _____/S/
 Dan Meyers, CEPOH-EC-T

Enclosure(s)
 1. Site Plan

